



|  |                  |                 |                              |                          |
|--|------------------|-----------------|------------------------------|--------------------------|
| Product designation                                  |                  |                 |                              | Auxiliary contactor      |
| Product type designation                             |                  |                 |                              | BGF00                    |
| <b>Contact characteristics</b>                       |                  |                 |                              |                          |
| Number of poles                                      | Nr.              |                 |                              | 4                        |
| Rated insulation voltage $U_i$ IEC/EN                | V                |                 |                              | 690                      |
| Rated impulse withstand voltage $U_{imp}$            | kV               |                 |                              | 6                        |
| Operational frequency                                | min              | Hz              | 25                           |                          |
|  | max              | Hz              | 400                          |                          |
| IEC Conventional free air thermal current $I_{th}$   | A                |                 |                              | 10                       |
| Short-time allowable current for 10s (IEC/EN60947-1) | A                |                 |                              | 0                        |
| Protection fuse                                      | gG (IEC)         | A               | 16                           |                          |
|  |                  |                 |                              |                          |
| Tightening torque for terminals                      | min              | Nm              | 0.8                          |                          |
|  | max              | Nm              | 1                            |                          |
|  | min              | Ibin            | 9                            |                          |
|  | max              | Ibin            | 9                            |                          |
| Tightening torque for coil terminal                  | min              | Nm              | 0.8                          |                          |
|  | max              | Nm              | 1                            |                          |
|  | min              | Ibin            | 9                            |                          |
|  | max              | Ibin            | 9                            |                          |
| Max number of wires simultaneously connectable       | Nr.              |                 |                              | 2                        |
| Conductor section                                    | AWG/Kcmil        |                 |                              |                          |
|  |                  | max             | 12                           |                          |
| Flexible w/o lug conductor section                   | min              | mm <sup>2</sup> | 0.75                         |                          |
|  | max              | mm <sup>2</sup> | 2.5                          |                          |
| Flexible c/w lug conductor section                   | min              | mm <sup>2</sup> | 1.5                          |                          |
|  | max              | mm <sup>2</sup> | 2.5                          |                          |
| Flexible with insulated spade lug conductor section  | min              | mm <sup>2</sup> | 1.5                          |                          |
|  | max              | mm <sup>2</sup> | 2.5                          |                          |
| Power terminal protection according to IEC/EN 60529  |                  |                 |                              | IP20 when properly wired |
| <b>Mechanical features</b>                           |                  |                 |                              |                          |
| Operating position                                   | normal allowable |                 | Vertical plan $\pm 30^\circ$ |                          |
|  |                  |                 |                              | Screw / DIN rail 35mm    |
| Fixing   |                  |                 |                              | Screw / DIN rail 35mm    |
| Weight   |                  |                 |                              | g 180                    |

Conductor section

AWG/kcmil conductor section

max 12

**Auxiliary contact characteristics**

Thermal current I<sub>th</sub> A 10

IEC/EN 60947-5-1 designation A600 - Q600

Operating current AC15

|      |   |     |
|------|---|-----|
| 230V | A | 3   |
| 400V | A | 1.9 |
| 500V | A | 1.4 |

Operating current DC12

|      |   |     |
|------|---|-----|
| 110V | A | 2.9 |
|------|---|-----|

Operating current DC13

|      |   |     |
|------|---|-----|
| 24V  | A | 2.9 |
| 48V  | A | 1.4 |
| 60V  | A | 1.1 |
| 125V | A | 0.3 |
| 220V | A | 0.1 |
| 600V | A | 0.6 |

**Operations**

Mechanical life cycles 20000000

**Safety related data**

Performance level B10d according to EN/ISO 13489-1

mechanical load cycles 20000000

Mirror contacts according to IEC/EN 60947-4-1 YES

EMC compatibility yes

**AC coil operating**

Rated AC voltage at 60Hz V 220

AC operating voltage

of 60Hz coil powered at 60Hz  
pick-up

|     |     |     |
|-----|-----|-----|
| min | %Us | 75  |
| max | %Us | 115 |

drop-out

|     |     |    |
|-----|-----|----|
| min | %Us | 20 |
| max | %Us | 55 |

AC average coil consumption at 20°C

of 50/60Hz coil powered at 50Hz

|         |    |    |
|---------|----|----|
| in-rush | VA | 30 |
| holding | VA | 4  |

of 50/60Hz coil powered at 60Hz

|         |    |    |
|---------|----|----|
| in-rush | VA | 25 |
| holding | VA | 3  |

of 60Hz coil powered at 60Hz

|         |    |    |
|---------|----|----|
| in-rush | VA | 30 |
| holding | VA | 4  |

Dissipation at holding ≤20°C 50Hz W 0.95

**Max cycles frequency**

Mechanical operation cycles/h 3600

**Operating times**

Average time for U<sub>s</sub> control

in AC

Closing NO

|       |            |     |    |    |
|-------|------------|-----|----|----|
|       |            | min | ms | 12 |
|       |            | max | ms | 21 |
|       | Opening NO |     |    |    |
|       |            | min | ms | 9  |
|       |            | max | ms | 18 |
|       | Closing NC |     |    |    |
|       |            | min | ms | 17 |
|       |            | max | ms | 26 |
|       | Opening NC |     |    |    |
|       |            | min | ms | 7  |
|       |            | max | ms | 17 |
| <hr/> |            |     |    |    |
|       | in DC      |     |    |    |
|       | Closing NO |     |    |    |
|       |            | min | ms | 18 |
|       |            | max | ms | 25 |
|       | Opening NO |     |    |    |
|       |            | min | ms | 2  |
|       |            | max | ms | 3  |
|       | Closing NC |     |    |    |
|       |            | min | ms | 3  |
|       |            | max | ms | 5  |
|       | Opening NC |     |    |    |
|       |            | min | ms | 11 |
|       |            | max | ms | 17 |

**UL technical data**

Contact rating of auxiliary contacts according to UL

A600 - Q600

**Ambient conditions**

Temperature

Operating temperature

|     |    |     |
|-----|----|-----|
| min | °C | -50 |
| max | °C | +70 |

Storage temperature

|     |    |     |
|-----|----|-----|
| min | °C | -60 |
| max | °C | +80 |

Max altitude

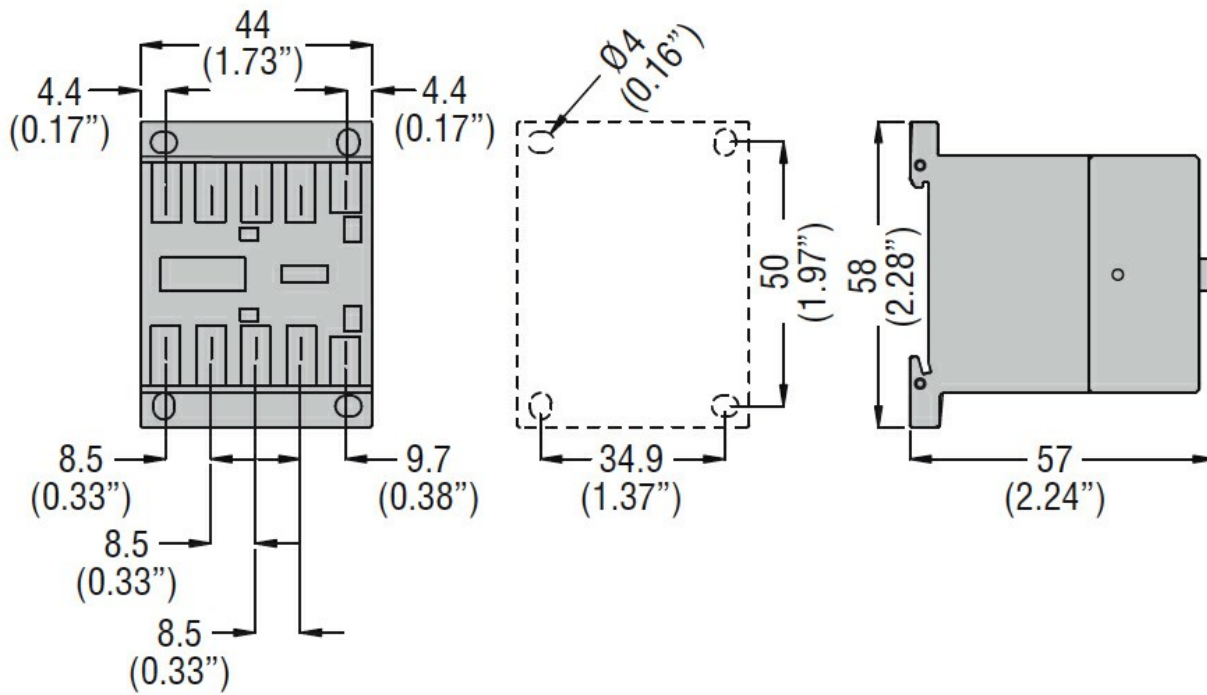
m 3000

**Resistance & Protection**

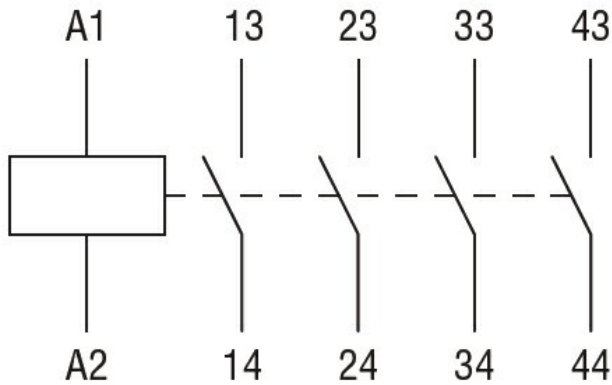
Pollution degree

3

**Dimensions**



### Wiring diagrams



### Certifications and compliance

#### Compliance

|                        |
|------------------------|
| CSA C22.2 n° 60947-1   |
| CSA C22.2 n° 60947-5-1 |
| IEC/EN 60947-1         |
| IEC/EN 60947-5-1       |
| UL 60947-1             |
| UL 60947-5-1           |

#### Certificates

|       |
|-------|
| CCC   |
| cULus |
| EAC   |

### ETIM classification

ETIM 8.0

EC000196 -  
Contactor relay